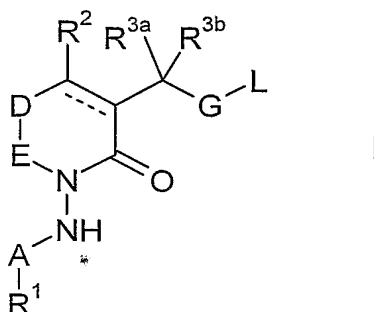


Claims

1. A compound of formula I



5 wherein

the dashed line is absent or represents a bond;

A represents C(O), S(O)₂, C(O)O (in which latter group the O moiety is attached to R¹), C(O)NH, S(O)₂NH (in which latter two groups the NH moiety is attached to R¹) or C₁₋₆ alkylene;

R¹ represents

- (a) C₁₋₁₀ alkyl, C₂₋₁₀ alkenyl, C₂₋₁₀ alkynyl (which latter three groups are optionally substituted by one or more substituents selected from halo, CN, C₃₋₁₀ cycloalkyl (optionally substituted by one or more substituents selected from halo, OH, =O, C₁₋₆ alkyl, C₁₋₆ alkoxy and aryl), OR^{4a}, S(O)_nR^{4b}, S(O)₂N(R^{4c})(R^{4d}), N(R^{4e})S(O)₂R^{4f}, N(R^{4g})(R^{4h}), B¹-C(O)-B²-R⁴ⁱ, aryl and Het¹),
- (b) C₃₋₁₀ cycloalkyl or C₄₋₁₀ cycloalkenyl, which latter two groups are optionally substituted by one or more substituents selected from halo, =O, CN, C₁₋₁₀ alkyl, C₃₋₁₀ cycloalkyl (optionally substituted by one or more substituents selected from halo, OH, =O, C₁₋₆ alkyl, C₁₋₆ alkoxy and aryl), OR^{4a}, S(O)_nR^{4b}, S(O)₂N(R^{4c})(R^{4d}), N(R^{4e})S(O)₂R^{4f}, N(R^{4g})(R^{4h}), B³-C(O)-B⁴-R⁴ⁱ, aryl and Het²,
- (c) aryl, or

(d) Het³;

R^{4a} to R⁴ⁱ independently represent, at each occurrence,

(a) H,

5 (b) C₁₋₁₀ alkyl, C₂₋₁₀ alkenyl, C₂₋₁₀ alkynyl (which latter three groups are optionally substituted by one or more substituents selected from halo, OH, C₁₋₆ alkoxy, aryl and Het⁴),

(c) C₃₋₁₀ cycloalkyl, C₄₋₁₀ cycloalkenyl (which latter two groups are optionally substituted by one or more substituents selected from halo, 10 OH, =O, C₁₋₆ alkyl, C₁₋₆ alkoxy, aryl and Het⁵),

(d) aryl or

(e) Het⁶,

provided that R^{4b} does not represent H when n is 1 or 2;

15 the group -D-E-

(a) when the dashed line represents a bond, represents -C(R^{5a})=C(R^{5b})-, or

(b) when the dashed line is absent, represents -C(R^{6a})(R^{6b})-C(R^{7a})(R^{7b})-; R^{5a} and R^{5b} independently represent H, halo, OH, C₁₋₄ alkyl, (CH₂)₀₋₄O(C₁₋₃ 20 alkyl) (which latter two groups are optionally substituted by one OH group or one or more F atoms);

R^{6a}, R^{6b}, R^{7a} and R^{7b} independently represent H, F or methyl;

or R^{5a} and R^{5b} together represent C₂₋₄ *n*-alkylene;

or one of R^{6a} and R^{6b}, together with one of R^{7a} and R^{7b}, represents C₁₋₄ *n*- 25 alkylene;

R² represents

(a) H,

(b) halo;

(c) C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₁₋₆ alkoxy (which latter four groups are optionally substituted by one or more substituents selected from halo, OH, CN, C₁₋₄ alkoxy, C(O)OH, C(O)O-C₁₋₄ alkyl and OC(O)-C₁₋₄ alkyl) or

5 (d) together with R^{3a}, R² represents C₂₋₃ *n*-alkylene, T¹-(C₁₋₂ *n*-alkylene) or (C₁₋₂ *n*-alkylene)-T¹, which latter three groups are optionally substituted by halo, or

(e) together with R^{3a} and R^{3b}, R² represents T²-[C(H)=], wherein T² is bonded to the C-atom to which the group R² is attached;

10

R^{3a} and R^{3b} independently represent H, F or methyl (which latter group is optionally substituted by one or more F atoms), or

(a) together with R², R^{3a} represents C₂₋₃ *n*-alkylene, T¹-(C₁₋₂ *n*-alkylene) or (C₁₋₂ *n*-alkylene)-T¹, which latter three groups are optionally substituted

15

by halo, or

(b) together with R², R^{3a} and R^{3b} represent T²-[C(H)=], wherein T² is bonded to the C-atom to which the group R² is attached;

T¹ and T² independently represent O, S, N(H) or N(C₁₋₄ alkyl);

20 G represents

(a) -C(O)N(R^{8a})-[CH(C(O)R⁹)]₀₋₁-C₀₋₃ alkylene-(Q¹)_a-,

(b) -C(O)N(R^{8b})-C₂₋₃ alkenylene-(Q¹)_a-,

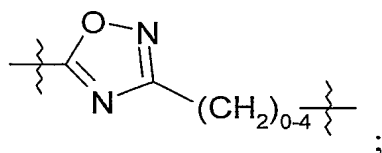
(c)



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(d)

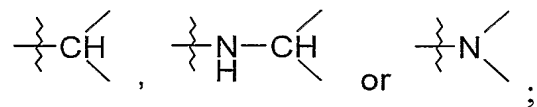


R⁹ represents H or a 5- to 10-membered aromatic heterocyclic group comprising one or two rings and containing, as heteroatom(s), one sulfur or oxygen atom and/or one or more nitrogen atoms, which heterocyclic group is optionally substituted by one or more substituents selected from halo and C₁₋₆ alkyl;

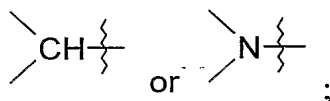
Q¹ represents O, NR^{10a}, [N(H)]₀₋₁C(O)-C₀₋₂ alkylene, C(O)NHNHC(O), or -N=C(R^{10b})-;

a represents 0 or 1;

Q^{2a} represents



Q^{2b} represents



15

L represents

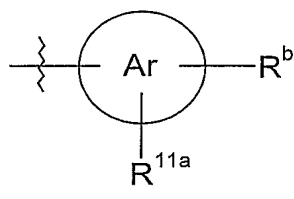
(a) C₀₋₆ alkylene-R^a,

(b) C₀₋₂ alkylene-CH=CH-C₀₋₂ alkylene-R^a,

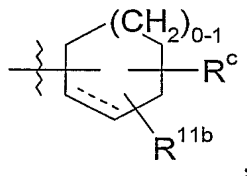
(c) C₀₋₂ alkylene-C≡C-C₀₋₂ alkylene-R^a,

20

(d)

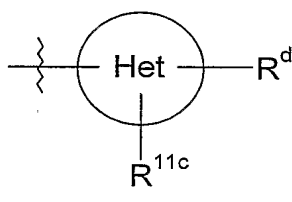


(e)



wherein the dashed line represents an optional double bond, or

(f)



Ar represents phenyl or naphthyl;

Het represents a 5- to 10-membered heterocyclic group comprising one or two rings and containing, as heteroatom(s), one sulfur or oxygen atom and/or one or more nitrogen atoms;

R^{11a} represents H or one or more substituents selected from halo, OH, CN, C_{1-6} alkyl, C_{1-6} alkoxy (which latter two groups are optionally substituted by one or more substituents selected from halo, OH, C_{1-4} alkoxy; $C(O)OR^{12a}$ and $C(O)N(R^{12b})R^{12c}$) and $S(O)_{0-2}R^{12d}$;

R^{11b} and R^{11c} independently represent H or one or more substituents selected from halo, OH, CN, C_{1-6} alkyl, C_{1-6} alkoxy (which latter two groups are optionally substituted by one or more substituents selected from halo, OH, C_{1-4} alkoxy, $C(O)OR^{12a}$ and $C(O)N(R^{12b})R^{12c}$), $S(O)_{0-2}R^{12d}$, =O, =NH, =NOH and =N-CN;

R^{12a} to R^{12c} independently represent H, C_{1-6} alkyl or C_{3-7} cycloalkyl (which latter two groups are optionally substituted by one OH or $N(R^{12e})R^{12f}$ group or by one or more halo atoms);

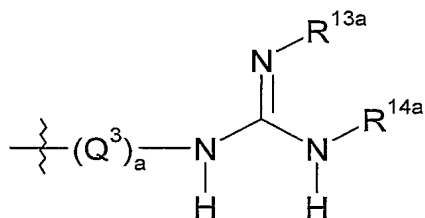
R^{12d} represents, independently at each occurrence, C_{1-6} alkyl optionally substituted by one OH or $N(R^{12e})R^{12f}$ group or by one or more halo atoms;

176

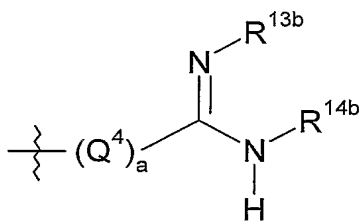
R^{12e} and R^{12f} represent, independently at each occurrence, H or C_{1-4} alkyl optionally substituted by one or more halo atoms;

R^a to R^d independently represent

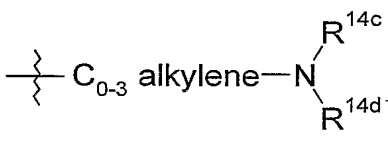
5 (a)



(b)

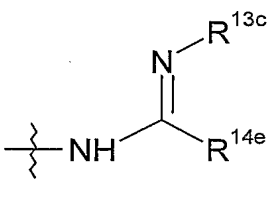


(c)

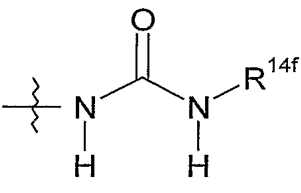


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(d)

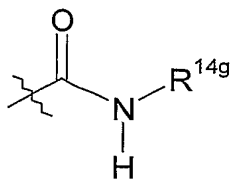


(e)



15

(f)

(g) Het^xor R^b to R^d may also represent H;

5 Q³ represents O, N(R^{10c}), S(O)₂, S(O)₂NH, C(O) or -CH=N-;

Q⁴ represents O, S or CH₂;

a represents 0 or 1;

Het^x represents a 5- or 6-membered heterocyclic group containing one to four heteroatoms selected from oxygen, nitrogen and/or sulfur, which
 10 heterocyclic group may be substituted by one or more substituents selected from halo, =O, C₁₋₆ alkyl and C₁₋₆ alkoxy (which latter two groups are optionally substituted by one or more halo atoms);

R^{13a} to R^{13c} independently represent

15 (a) H,

(b) CN,

(c) NH₂,

(d) OR¹⁵ or

(e) C(O)OR¹⁶;

20 R¹⁵ represents

(a) H,

(b) C₁₋₁₀ alkyl, C₃₋₁₀ alkenyl, C₃₋₁₀ alkynyl,

(c) C₃₋₁₀ cycloalkyl, C₄₋₁₀ cycloalkenyl, which latter two groups are optionally substituted by one or more substituents selected from halo
 25 and C₁₋₆ alkyl, or

(d) C₁₋₃ alkyl, which latter group is optionally interrupted by oxygen and is substituted by aryl or -O-aryl;

R¹⁶ represents

- (a) C₁₋₁₀ alkyl, C₃₋₁₀ alkenyl, C₃₋₁₀ alkynyl, which latter three groups are optionally interrupted by one or more oxygen atoms, or
- (b) C₃₋₁₀ cycloalkyl, C₄₋₁₀ cycloalkenyl, which latter two groups are optionally substituted by one or more substituents selected from halo and C₁₋₆ alkyl, or
- (c) C₁₋₃ alkyl, which latter group is optionally interrupted by oxygen and is substituted by aryl or -O-aryl;

R^{8a} to R^{8c}, R^{10a} to R^{10c} and R^{14a} to R^{14g} independently represent

- (a) H or
- (b) C₁₋₄ alkyl (which latter group is optionally substituted by one or more substituents selected from halo and OH),

or R^{14a} and R^{14b} independently represent C(O)O-C₁₋₆ alkyl (the alkyl part of which latter group is optionally substituted by aryl and/or one or more halo atoms),

or R^{14c} represents

- (a) C₁₋₄ alkyl substituted by C₃₋₇ cycloalkyl or aryl,
- (b) C₃₋₇ cycloalkyl,
- (c) C(O)O-C₁₋₆ alkyl (the alkyl part of which latter group is optionally substituted by aryl and/or one or more halo atoms),
- (d) C(O)C₁₋₆ alkyl,
- (e) C(O)N(H)-C₁₋₆ alkyl (the alkyl part of which latter group is optionally substituted by aryl and/or one or more halo atoms) or

(f) S(O)₂-C₁₋₆ alkyl (the alkyl part of which latter group is optionally substituted by aryl and/or one or more halo atoms),

or R^{14c} and R^{14d} together represent C₃₋₆ *n*-alkylene optionally interrupted by O, S, N(H) or N(C₁₋₄ alkyl) and/or substituted by one or more C₁₋₄ alkyl groups;

each aryl independently represents a C₆₋₁₀ carbocyclic aromatic group, which group may comprise either one or two rings and may be substituted by one or more substituents selected from

- (a) halo,
- 5 (b) CN,
- (c) C₁₋₁₀ alkyl, C₂₋₁₀ alkenyl, C₂₋₁₀ alkynyl (which latter three groups are optionally substituted by one or more substituents selected from halo, OH, C₁₋₆ alkoxy, C(O)OH, C(O)O-C₁₋₆ alkyl, phenyl (which latter group is optionally substituted by halo) and Het⁷),
- 10 (d) C₃₋₁₀ cycloalkyl, C₄₋₁₀ cycloalkenyl (which latter two groups are optionally substituted by one or more substituents selected from halo, OH, =O, C₁₋₆ alkyl, C₁₋₆ alkoxy, phenyl (which latter group is optionally substituted by halo) and Het⁸),
- (e) OR^{17a},
- 15 (f) S(O)_pR^{17b},
- (g) S(O)₂N(R^{17c})(R^{17d}),
- (h) N(R^{17e})S(O)₂R^{17f},
- (i) N(R^{17g})(R^{17h}),
- (j) B⁵-C(O)-B⁶-R¹⁷ⁱ,
- 20 (k) phenyl (which latter group is optionally substituted by halo),
- (l) Het⁹ and
- (m) Si(R^{18a})(R^{18b})(R^{18c});

R^{17a} to R¹⁷ⁱ independently represent, at each occurrence,

- 25 (a) H,
- (b) C₁₋₁₀ alkyl, C₂₋₁₀ alkenyl, C₂₋₁₀ alkynyl (which latter three groups are optionally substituted by one or more substituents selected from halo, OH, C₁₋₆ alkoxy, phenyl (which latter group is optionally substituted by halo) and Het¹⁰),

- (c) C₃₋₁₀ cycloalkyl, C₄₋₁₀ cycloalkenyl (which latter two groups are optionally substituted by one or more substituents selected from halo, OH, =O, C₁₋₆ alkyl, C₁₋₆ alkoxy, phenyl (which latter group is optionally substituted by halo) and Het¹¹),
- 5 (d) phenyl (which latter group is optionally substituted by halo) or
- (e) Het¹²,
- provided that R^{17b} does not represent H when p is 1 or 2;

Het¹ to Het¹² independently represent 4- to 14-membered heterocyclic groups containing one or more heteroatoms selected from oxygen, nitrogen and/or sulfur, which heterocyclic groups may comprise one, two or three rings and may be substituted by one or more substituents selected from

- (a) halo,
- (b) CN,
- 15 (c) C₁₋₁₀ alkyl, C₂₋₁₀ alkenyl, C₂₋₁₀ alkynyl (which latter four groups are optionally substituted by one or more substituents selected from halo, OH, C₁₋₆ alkoxy, C(O)OH, C(O)O-C₁₋₆ alkyl, phenyl (which latter group is optionally substituted by halo) and Het^a),
- (d) C₃₋₁₀ cycloalkyl, C₄₋₁₀ cycloalkenyl (which latter two groups are optionally substituted by one or more substituents selected from halo, OH, =O, C₁₋₆ alkyl, C₁₋₆ alkoxy, phenyl (which latter group is optionally substituted by halo) and Het^b),
- 20 (e) =O,
- (f) OR^{19a},
- 25 (g) S(O)_qR^{19b},
- (h) S(O)₂N(R^{19c})(R^{19d}),
- (i) N(R^{19e})S(O)₂R^{19f},
- (j) N(R^{19g})(R^{19h}),
- (k) B⁷-C(O)-B⁸-R¹⁹ⁱ,
- 30 (l) phenyl (which latter group is optionally substituted by halo),

(m) Het^c and

(n) Si(R^{20a})(R^{20b})(R^{20c});

R^{19a} to R¹⁹ⁱ independently represent, at each occurrence,

5 (a) H,

(b) C₁₋₁₀ alkyl, C₂₋₁₀ alkenyl, C₂₋₁₀ alkynyl (which latter three groups are optionally substituted by one or more substituents selected from halo, OH, C₁₋₆ alkoxy, phenyl (which latter group is optionally substituted by halo) and Het^d),

10 (c) C₃₋₁₀ cycloalkyl, C₄₋₁₀ cycloalkenyl (which latter two groups are optionally substituted by one or more substituents selected from halo, OH, =O, C₁₋₆ alkyl, C₁₋₆ alkoxy, phenyl (which latter group is optionally substituted by halo) and Het^e),

(d) phenyl (which latter group is optionally substituted by halo) or

15 (e) Het^f,

provided that R^{19b} does not represent H when q is 1 or 2;

Het^a to Het^f independently represent 5- or 6-membered heterocyclic groups containing one to four heteroatoms selected from oxygen, nitrogen and/or sulfur, which heterocyclic groups may be substituted by one or more substituents selected from halo, =O and C₁₋₆ alkyl;

20

B¹ to B⁸ independently represent a direct bond, O, S or NH;

n, p and q independently represent 0, 1 or 2;

25

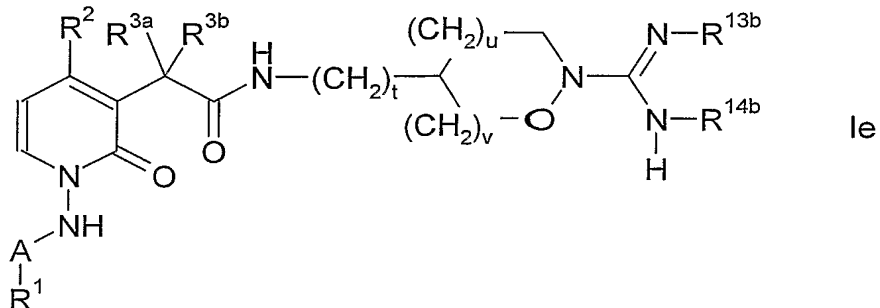
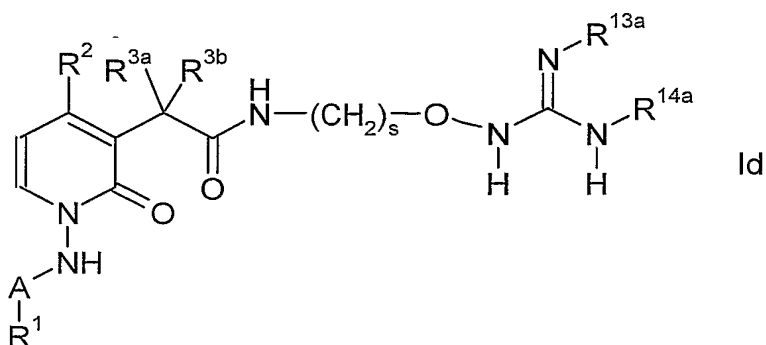
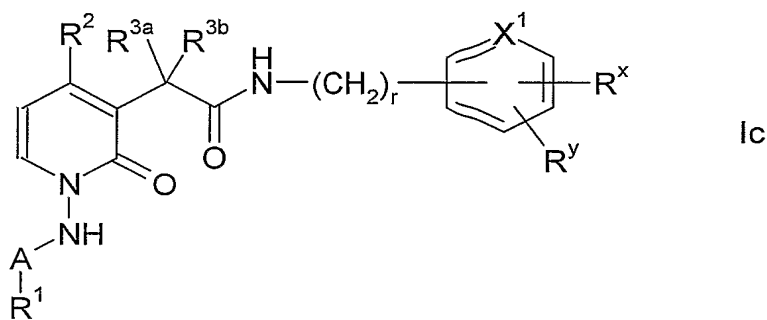
R^{18a}, R^{18b}, R^{18c}, R^{20a}, R^{20b} and R^{20c} independently represent C₁₋₆ alkyl or phenyl (which latter group is optionally substituted by halo or C₁₋₄ alkyl);

unless otherwise specified

- (i) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, alkylene and alkenylene groups, as well as the alkyl part of alkoxy groups, may be substituted by one or more halo atoms, and
- 5 (ii) cycloalkyl and cycloalkenyl groups may comprise one or two rings and may additionally be ring-fused to one or two phenyl groups;

or a pharmaceutically-acceptable derivative thereof.

- 10 2. A compound as claimed in Claim 1, which is a compound of formula Ic, Id or Ie,



wherein X^1 represents CH or N;

when X^1 represents CH

(a) R^x represents R^b as defined in Claim 1, and

(b) R^y represents R^{11a} as defined in Claim 1;

5 when X^1 represents N

(a) R^x represents R^d as defined in Claim 1, and

(b) R^y represents R^{11c} as defined in Claim 1;

r represents 1 to 3;

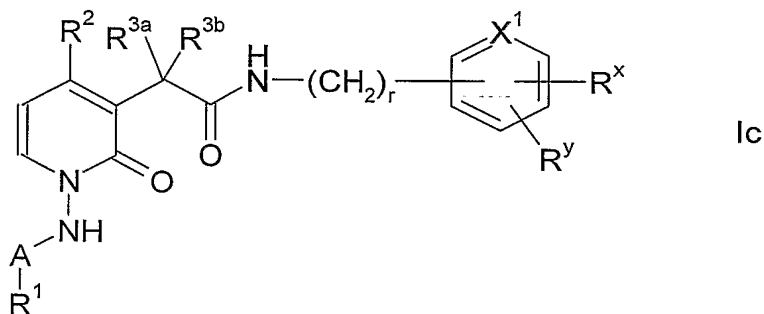
s represents 2 to 4;

10 t represents 1 to 3;

u and v independently represent 0 to 2, the sum of u and v being 1 or 2; and

R^1 , R^2 , R^{3a} , R^{3b} , R^{11a} , R^{11c} , R^{13a} , R^{13b} , R^{14a} , R^{14b} , R^b , R^d and A are as defined in Claim 1.

15 3. A compound as claimed in Claim 2 which is a compound of formula Ic,



wherein

A represents $CH(CH_3)CH_2$ (in which latter group the $CH(CH_3)$ unit is
20 attached to R^1) or CH_2 , $(CH_2)_2$ or CF_2CH_2 (in which latter group the CF_2
unit is attached to R^1);

R^1 represents

(a) isopropyl or *tert*-butyl,

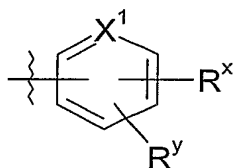
(b) cyclopentyl, cyclohexyl or bicyclo[2.2.1]hept-5-ene,

- (c) phenyl optionally substituted by one or two substituents selected from halo, CN, methyl, CF₃, methoxy, OCF₃, phenoxy, morpholin-4-yl or O-CH₂-(2-chlorothiazol-5-yl),
- (d) imidazolyl optionally substituted by one to three substituents selected from Cl, methyl and phenyl,
- (e) isoxazolyl optionally substituted by one or two substituents selected from methyl, phenyl and 2-thienyl,
- (f) thiazolyl optionally substituted by one or two methyl groups,
- (g) thienyl optionally substituted by Cl or pyridinyl,
- (h) pyrazolyl optionally substituted by one to three substituents selected from Cl, methyl, ethyl, phenyl and morpholin-4-yl,
- (i) pyrrolyl optionally substituted by one to three substituents selected from methyl, S(O)₂-phenyl, C(O)-phenyl and 1,3,4-triazol-1-yl,
- (j) pyridinyl optionally substituted by OH, methoxy or morpholin-4-yl, and optionally in the form of an *N*-oxide,
- (k) pyridonyl,
- (l) pyrazinyl,
- (m) benzodioxolyl optionally substituted by halo,
- (n) benzomorpholinyl optionally substituted by methyl;
- (o) 2,1,3-benzoxadiazolyl,
- (p) 2,3-dihydrobenzofuranyl or
- (q) quinolinyl;

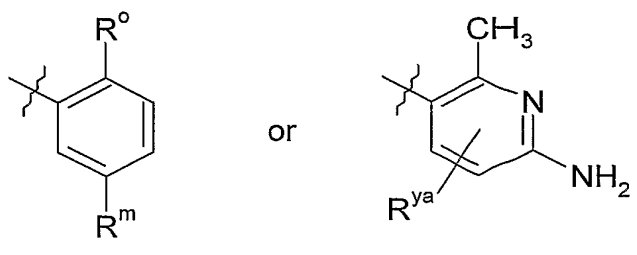
R⁵ and R⁶ both represent H;

r represents 1;

the group



represents



R^o represents H, F, Cl, OH, methyl, tetrazol-1-yl, $OCH_2C(O)N(H)R^{12b}$ or $CH_2N(H)R^{14c}$;

5 R^{12b} represents H or C_{1-3} alkyl optionally substituted by $N(CH_3)_2$;

R^{14c} represents $C(O)O$ -*tert*-butyl, H, ethyl, CH_2CF_3 or cyclopentyl;

R^m represents H, methyl, CF_3 , methoxy, F or Cl; and

R^{ya} represents H or methyl.

10 4. A pharmaceutical formulation including a compound as defined in any one of Claims 1 to 3, or a pharmaceutically acceptable derivative thereof, in admixture with a pharmaceutically acceptable adjuvant, diluent or carrier.

15 5. A compound as defined in any one of Claims 1 to 3, or a pharmaceutically acceptable derivative thereof, for use as a pharmaceutical.

6. The use of a compound as defined in any one of Claims 1 to 3, or a pharmaceutically acceptable derivative thereof, as an active ingredient for
20 the manufacture of a medicament for the treatment of a condition where inhibition of thrombin is beneficial.

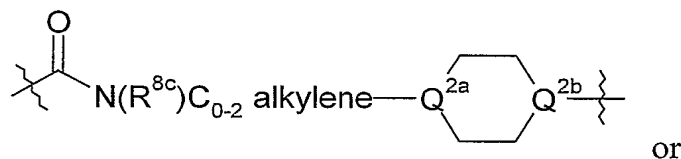
7. A method of treatment of a condition where inhibition of thrombin is beneficial, which method comprises administration of a therapeutically
25 effective amount of a compound as defined in any one of Claims 1 to 3, or a

pharmaceutically acceptable derivative thereof, to a person suffering from, or susceptible to, such a condition.

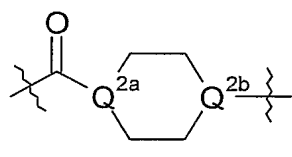
8. A process for the preparation of a compound of formula I as defined in Claim 1, which comprises:

(a) for compounds of formula I in which the group G represents

- (i) $C(O)N(R^{8a})-[CH(C(O)R^9)]_{0-1}-C_{0-3}$ alkylene- $(Q^1)_a$ -,
- (ii) $C(O)N(R^{8b})-C_{2-3}$ alkenylene- $(Q^1)_a$ -,
- (iii) $C(O)N(R^{8b})-C_{2-3}$ alkynylene- $(Q^1)_a$ -,
- (iv)

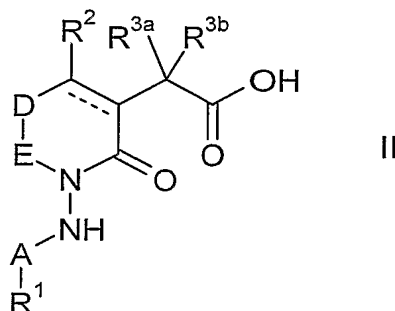


(v)

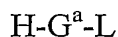


wherein Q^{2a} represents N or NHCH,

coupling of a compound of formula II,



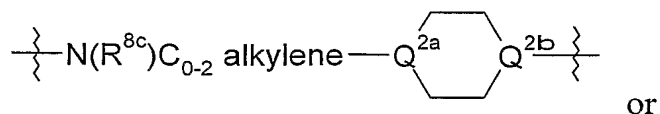
wherein the dashed line, R^1 , R^2 , R^{3a} , R^{3b} , A, D and E are as defined in Claim 1, with a compound of formula III,



III

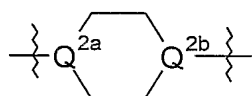
wherein L is as defined in Claim 1 and G^a represents

- (i) $-N(R^{8a})-[CH(C(O)R^9)]_{0-1}-C_{0-3}$ alkylene $-(Q^1)_a-$,
(ii) $-N(R^{8b})-C_{2-3}$ alkenylene $-(Q^1)_a-$,
(iii) $-N(R^{8b})-C_{2-3}$ alkynylene $-(Q^1)_a-$,
(iv)



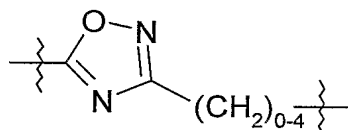
or

- (v)

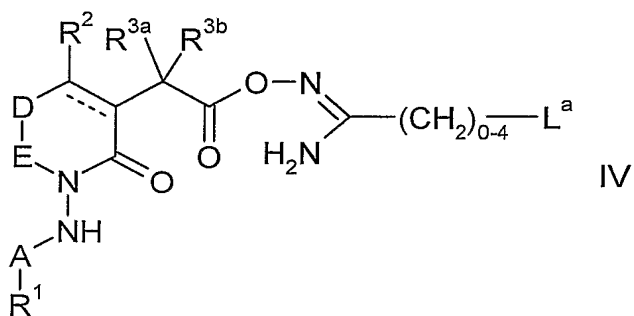


wherein Q^{2a} represents N or NHCH and R^{8a}, R^{8b}, R^{8c}, R⁹, Q¹, Q^{2b} and a are as defined in Claim 1;

- 10 (b) for compounds of formula I in which G represents



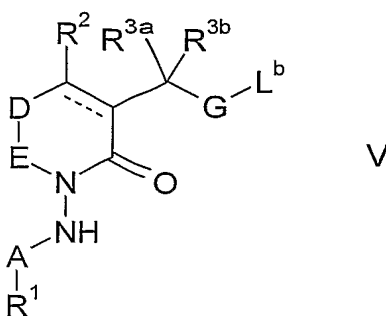
and L represents L^a, which latter group represents L as defined in Claim 1, except that it does not represent C₀ alkylene-R^a, cyclisation of a compound of formula IV,



wherein L^a is as defined above and the dashed line, R^1 , R^2 , R^{3a} , R^{3b} , A, D and E are as defined in Claim 1;

- (c) for compounds of formula I in which R^a, R^b, R^c or R^d represents -C(=NH)NH₂, -C(=NNH₂)NH₂ or -C(=NOH)NH₂, reaction of a compound of formula V,

188



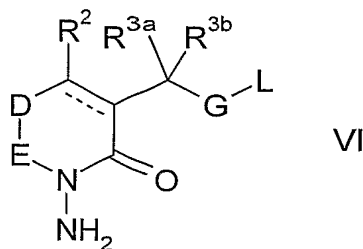
wherein L^b represents L as defined in Claim 1, except that R^a , R^b , R^c or R^d (as appropriate) is replaced by a cyano or $-C(=NH)O-C_{1-4}$ alkyl group, and the dashed line, R^1 , R^2 , R^{3a} , R^{3b} , A, D, E and G are as defined in Claim 1,

5 with a suitable source of ammonia, hydrazine or hydroxylamine;

(d) for compounds of formula I in which R^{13a} , R^{13b} or R^{13c} represents H, deprotection of a corresponding compound of formula I in which R^{13a} , R^{13b} or R^{13c} (as appropriate) represents $C(O)O-CH_2$ aryl;

(e) for compounds of formula I in which R^{14c} represents H, deprotection of a
10 corresponding compound of formula I in which R^{14c} represents $C(O)O-C_{1-6}$ alkyl;

(f) reaction of a compound of formula VI,



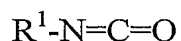
wherein the dashed line, R^2 , R^{3a} , R^{3b} , A, D, E, G and L are as defined in
15 Claim 1, with a compound of formula VII,



VII

wherein Lg^1 represents a leaving group and R^1 and A are as defined in Claim 1;

(g) for compounds of formula I in which A represents $C(O)NH$, reaction of
20 a compound of formula VI, as defined above, with a compound of formula VIII,



VIII

wherein R^1 is as defined in Claim 1;

- (h) for compounds of formula I in which A represents C_{1-6} alkylene, reaction of a compound of formula VI, as defined above, with a compound
5 of formula IX,



IX

wherein R^1 is as defined in Claim 1, followed by reduction in the presence of a reducing agent; or

- (i) for compounds of formula I in which R^a , R^b , R^c or R^d represents
10 $-C(=NCN)NH_2$, reaction of a corresponding compound of formula I in which R^a , R^b , R^c or R^d , respectively, represents $-C(=NH)NH_2$ with cyanogen bromide.

9. A compound of formula II, as defined in Claim 8, or a protected
15 derivative thereof.

10. A compound of formula IV, as defined in Claim 8, or a protected derivative thereof.

- 20 11. A compound of formula VI, as defined in Claim 8, or a protected derivative thereof.